

REMARKS

This application should now be in condition for allowance and such action is respectfully requested. A copy of the claims as amended is attached to show changes made.

A check in the amount of \$18 is attached to cover additional claim fees (1 additional claim in excess of 20). The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment, to Deposit Account No. 50-0750.

December 9, 2002

Dated

Respectfully submitted,

Kristofer E. Elbing

Kristofer E. Elbing

Registration No. 34,590

187 Pelham Island Road

Wayland, MA 01778

Telephone: (508) 358-2590

Facsimile: (508) 358-0714

Version Showing New Claims

15. A video editing system, comprising:

- a random access computer readable medium for storing video information in one or more data files in a computer file system;

- a display;

- a standard alphanumeric keyboard;

- computing apparatus operative in response to user input to perform editing operations on the video information, and operative in response to user input to display video information from the one or more data files in a source video window in the display, and operative in response to user input to display results of the editing operations on the video information in an edited program window on the display, and operative in response to a signal from a key on the standard alphanumeric keyboard to select one of the source video window and edited video window for display, and operative in response to signals from a set of three adjacent keys from the standard alphanumeric keyboard to control shuttling of playback of the video information from the one or more data files in the selected window at a shuttle speed and in a shuttle direction, such that a first of the three keys is for forward shuttling, a second of the three keys is for pausing, a third of the three keys is for reverse shuttling, and wherein multiple actuations of at least one of the first and third keys causes a change in the shuttle speed in the shuttle direction corresponding to the actuated key.

16. The video editing system of claim 15 wherein the change in the shuttle speed is in increments corresponding to a frame per second rate of the source.

17. The video editing system of claim 16 wherein the standard alphanumeric keyboard has 36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout.

18. The video editing system of claim 17 wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

19. The video editing system of claim 15 wherein the standard alphanumeric keyboard has 36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout.

20. The video editing system of claim 19 wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

21. A computer system for playing motion video, comprising:

- a random access computer readable medium for storing video information in one or more data files in a computer file system;

- a display;

- a standard alphanumeric keyboard; and

- computing apparatus operative in response to signals from a set of three adjacent keys from the standard alphanumeric keyboard to control shuttling of playback of the video information from the one or more data files on the display at a shuttle speed and in a shuttle direction, such that a first of the three keys is for forward shuttling, a second of the three keys is for pausing, a third of the three keys is for reverse shuttling, and wherein multiple actuations of at least one of the first and third keys causes a change in the shuttle speed in the shuttle direction corresponding to the actuated key.

22. The computer system of claim 21 wherein the change in the shuttle speed is in increments corresponding to a frame per second rate of the video information.

23. The computer system of claim 22 wherein the standard alphanumeric keyboard has 36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three

keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout.

24. The computer system of claim 23 wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

25. The computer system of claim 21 wherein the standard alphanumeric keyboard has 36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout.

26. The computer system of claim 25 wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

27. A video editing system, comprising:

- a random access computer readable medium for storing video information in one or more data files in a computer file system;

- a display;

- a standard alphanumeric keyboard; and

- computing apparatus operative in response to user input to perform editing operations on the video information, and operative in response to user input to display video information from the one or more data files on the display, and operative in response to signals from a set of three adjacent keys from the standard alphanumeric keyboard to control shuttling of playback of the video information from the one or more data files on the display at a shuttle speed and in a shuttle direction, such that a first of the three keys is for forward shuttling, a second of the three keys is for pausing, a third of the three keys is for reverse shuttling, and wherein multiple actuations of at least one of the first and third keys causes a change in the shuttle speed in the shuttle direction corresponding to the actuated key.

28. The video editing system of claim 27, wherein the change in the shuttle speed is in increments corresponding to a frame per second rate of the video information.

29. The video editing system of claim 28 wherein the standard alphanumeric keyboard has 36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout.

30. The video editing system of claim 29 wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

31. The video editing system of claim 27, wherein the standard alphanumeric keyboard has 36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout.

32. The video editing system of claim 31 wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

33. A computer program product for editing video information on a computer having a standard alphanumeric keyboard, comprising:

 a computer readable medium for storing computer program code executable by the computer, wherein the computer program code comprises:

 editing code that when executed is responsive to user input to perform editing operations on video information in one or more data files accessible by the computer;

display code that when executed is responsive to user input to display the video information from the one or more data files on a display accessible by the computer; and control code that when executed is responsive to signals from a set of three adjacent keys from the standard alphanumeric keyboard to control shuttling of playback of the video information from the one or more data files on the display at a shuttle speed and in a shuttle direction, such that a first of the three keys is for forward shuttling, a second of the three keys is for pausing, a third of the three keys is for reverse shuttling, and wherein multiple actuations of at least one of the first and third keys causes a change in the shuttle speed in the shuttle direction corresponding to the actuated key.

34. The computer program product of claim 33 wherein the change in the shuttle speed is in increments corresponding to a frame per second rate of the video information.

35. The computer program product of claim 34 wherein the standard alphanumeric keyboard has 36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout.

36. The computer program product of claim 35 wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

37. The computer program product of claim 33 wherein the standard alphanumeric keyboard has 36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout.

38. The computer program product of claim 37 wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

39. A computer program product for playing video information on a computer having a standard alphanumeric keyboard, comprising:

a computer readable medium for storing computer program code executable by a computer, wherein the computer program code includes:

display code that when executed is responsive to user input to display video information, from one or more data files accessible by the computer, on a display accessible by the computer; and

control code that when executed is responsive to signals from a set of three adjacent keys from the standard alphanumeric keyboard to control shuttling of playback of the video information from the one or more data files at a shuttle speed and in a shuttle direction, such that a first of the three keys is for forward shuttling, a second of the three keys is for pausing, a third of the three keys is for reverse shuttling, and wherein multiple actuations of at least one of the first and third keys causes a change in the shuttle speed in the shuttle direction corresponding to the actuated key.

40. The computer program product of claim 39 wherein the change in the shuttle speed is in increments corresponding to a frame per second rate of the video information.

41. The computer program product of claim 40 wherein the standard alphanumeric keyboard has 36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout.

42. The computer program product of claim 41 wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of

a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

43. The computer program product of claim 39 wherein the standard alphanumeric keyboard has 36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout.

44. The computer program product of claim 43 wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

45. An alphanumeric keyboard for use with a computerized video editing system operative in response to signals from a set of three keys from the alphanumeric keyboard to control shuttling of playback of video information, from one or more data files stored on a random access computer readable medium in a computer file system, on a display at a shuttle speed and in a shuttle direction, such that a first of the three keys is for forward shuttling, a second of the three keys is for pausing, a third of the three keys is for reverse shuttling, and wherein multiple actuations of at least one of the first and third keys causes a change in the shuttle speed in the shuttle direction corresponding to the actuated key, the alphanumeric keyboard comprising:

36 alphanumeric keys disposed in a standard keyboard layout, and wherein the first of the three keys is a key that corresponds to an "L" key in a QWERTY keyboard layout, the second of the three keys is a key that corresponds to a "K" key in a QWERTY keyboard layout and the third of the three keys is a key that corresponds to a "J" key in a QWERTY keyboard layout, wherein the third key also bears a label indicative of a reverse shuttling function, wherein the second key also bears a label indicative of a pause function and wherein the first key also bears a label indicative of a forward shuttling function.

46. The alphanumeric keyboard of claim 45 further comprising keys containing typographical symbols, wherein the computerized video editing system further is operative in response to signals from a set of four adjacent keys from the standard alphanumeric keyboard to control trimming of a selected transition in the video information, such that a first of the four keys is for trimming a plurality of frames in a reverse direction, a second of the four keys is for trimming one frame in a reverse direction, a third of the four keys is for trimming one frame in a forward direction, a fourth of the four keys is for trimming a plurality of frames in a forward direction, wherein the first key is a key that corresponds to an "M" key in a QWERTY keyboard layout, the second key is a key that corresponds to a "<" key in a QWERTY keyboard layout, the third key is a key that corresponds to a ">" key in a QWERTY keyboard layout, and the fourth key is a key that corresponds to a "/" key in a QWERTY keyboard layout, and wherein the first key also bears a label indicative of a function for reverse trimming of a plurality of frames, wherein the second key also bears a label indicative of a function for reverse trimming of one frame, wherein the third key also bears a label indicative of a function for forward trimming of one frame, and wherein the fourth key also bears a label indicative of a function for forward trimming of a plurality of frames.

47. The alphanumeric keyboard of claim 46 wherein the computerized video editing system further is operative in response to signals from a set of three adjacent keys from the standard alphanumeric keyboard to select a mode of a transition, such that a first of the three keys selects trimming of a clip prior the transition, a second of the three keys selects trimming of clips both before and after the transition, and a third of the three keys selects trimming of a clip after the transition, wherein the first key also bears a label indicative of a function for trimming of a clip prior to the transition, wherein the second key also bears a label indicative of a function for trimming of clips both before and after the transition, wherein the third key also bears a label indicative of a function for trimming of a clip after the transition.

48. An alphanumeric keyboard for use with a computerized video editing system, comprising:
36 alphanumeric keys and additional keys with typographical symbols disposed in a standard keyboard layout, wherein a set of three adjacent keys includes a first key bearing a label

indicative of a reverse shuttling function, a second key bearing a label indicative of a pause function and a third key bearing a label indicative of a forward shuttling function.

49. The alphanumeric keyboard of claim 48 wherein a set of four adjacent keys includes a first key bearing a label indicative of a function for reverse trimming of a plurality of frames, a second key bearing a label indicative of a function for reverse trimming of one frame, a third key bearing a label indicative of a function for forward trimming of one frame, and a fourth key bearing a label indicative of a function for forward trimming of a plurality of frames.

50. The alphanumeric keyboard of claim 49 wherein a set of three adjacent keys includes a first key bearing a label indicative of a function for trimming of a clip prior to the transition, a second key bearing a label indicative of a function for trimming of clips both before and after the transition, and a third key bearing a label indicative of a function for trimming of a clip after the transition.

51. A video editing system, comprising:

- a random access computer readable medium for storing video information in one or more data files in a computer file system;

- a display;

- a standard alphanumeric keyboard;

- computing apparatus operative in response to user input to perform editing operations on the video information, and operative in response to user input to display video information from the one or more data files on the display, and operative in response to signals from a set of four adjacent keys from the standard alphanumeric keyboard to control trimming of a selected transition in the video information, such that a first of the four keys is for trimming a plurality of frames in a reverse direction, a second of the four keys is for trimming one frame in a reverse direction, a third of the four keys is for trimming one frame in a forward direction, a fourth of the four keys is for trimming a plurality of frames in a forward direction.

52. The video editing system of claim 51 wherein the first key is a key that corresponds to an "M" key in a QWERTY keyboard layout, the second key is a key that corresponds to a "<" key

in a QWERTY keyboard layout, the third key is a key that corresponds to a ">" key in a QWERTY keyboard layout, and the fourth key is a key that corresponds to a "/" key in a QWERTY keyboard layout.

53. The video editing system of claim 52 wherein the first key also bears a label indicative of a function for reverse trimming of a plurality of frames, wherein the second key also bears a label indicative of a function for reverse trimming of one frame, wherein the third key also bears a label indicative of a function for forward trimming of one frame, and wherein the fourth key also bears a label indicative of a function for forward trimming of a plurality of frames.

54. The video editing system of claim 52 wherein the computing apparatus further is operative in response to signals from a set of three adjacent keys from the standard alphanumeric keyboard to select a mode of a transition, such that a first of the three keys selects trimming of a clip prior the transition, a second of the three keys selects trimming of clips both before and after the transition, and a third of the three keys selects trimming of a clip after the transition.

55. The video editing system of claim 51 wherein the computing apparatus further is operative in response to signals from a set of three adjacent keys from the standard alphanumeric keyboard to select a mode of a transition, such that a first of the three keys selects trimming of a clip prior the transition, a second of the three keys selects trimming of clips both before and after the transition, and a third of the three keys selects trimming of a clip after the transition.

56. The video editing system of claim 51 wherein the computing apparatus further is operative in response to signals from a set of four adjacent keys from the standard alphanumeric keyboard to control trimming of a selected transition in the video information, such that a first of the four keys is for trimming a plurality of frames in a reverse direction, a second of the four keys is for trimming one frame in a reverse direction, a third of the four keys is for trimming one frame in a forward direction, a fourth of the four keys is for trimming a plurality of frames in a forward direction.

57. The video editing system of claim 56 wherein the first key is a key that corresponds to an "M" key in a QWERTY keyboard layout, the second key is a key that corresponds to a "<" key in a QWERTY keyboard layout, the third key is a key that corresponds to a ">" key in a QWERTY keyboard layout, and the fourth key is a key that corresponds to a "/" key in a QWERTY keyboard layout.

58. The video editing system of claim 57 wherein the first key also bears a label indicative of a function for reverse trimming of a plurality of frames, wherein the second key also bears a label indicative of a function for reverse trimming of one frame, wherein the third key also bears a label indicative of a function for forward trimming of one frame, and wherein the fourth key also bears a label indicative of a function for forward trimming of a plurality of frames.

59. The video editing system of claim 57 wherein the computing apparatus further is operative in response to signals from a set of three adjacent keys from the standard alphanumeric keyboard to select a mode of a transition, such that a first of the three keys selects trimming of a clip prior to the transition, a second of the three keys selects trimming of clips both before and after the transition, and a third of the three keys selects trimming of a clip after the transition.

60. The video editing system of claim 59 wherein the first key also bears a label indicative of a function for trimming of a clip prior to the transition, wherein the second key also bears a label indicative of a function for trimming of clips both before and after the transition, wherein the third key also bears a label indicative of a function for trimming of a clip after the transition.

61. The video editing system of claim 56 wherein the computing apparatus further is operative in response to signals from a set of three adjacent keys from the standard alphanumeric keyboard to select a mode of a transition, such that a first of the three keys selects trimming of a clip prior to the transition, a second of the three keys selects trimming of clips both before and after the transition, and a third of the three keys selects trimming of a clip after the transition.

62. The video editing system of claim 61 wherein the first key also bears a label indicative of a function for trimming of a clip prior to the transition, wherein the second key also bears a label

indicative of a function for trimming of clips both before and after the transition, wherein the third key also bears a label indicative of a function for trimming of a clip after the transition.

63. A computer system for playing motion video comprising computing apparatus operative in response to signals from a set of three adjacent keys from a standard alphanumeric keyboard to control shuttling of playback of video information, stored in one or more data files on a random access computer readable medium in a computer file system, on a display at a shuttle speed and in a shuttle direction, such that a first of the three keys is for forward shuttling, a second of the three keys is for pausing, a third of the three keys is for reverse shuttling, and wherein multiple actuations of at least one of the first and third keys causes a change in the shuttle speed in the shuttle direction corresponding to the actuated key.

64. The computer system of claim 63, wherein the change in the shuttle speed is in increments corresponding to a frame per second rate of the video information.

65. A video editing system comprising computing apparatus operative in response to user input to perform editing operations on video information, stored in one or more data files on a random access computer readable medium in a computer file system, and operative in response to user input to display the video information on a display, and operative in response to signals from a set of three adjacent keys from a standard alphanumeric keyboard to control shuttling of playback of the video information on the display at a shuttle speed and in a shuttle direction, such that a first of the three keys is for forward shuttling, a second of the three keys is for pausing, a third of the three keys is for reverse shuttling, and wherein multiple actuations of at least one of the first and third keys causes a change in the shuttle speed in the shuttle direction corresponding to the actuated key.

66. The video editing system of claim 65 wherein the change in the shuttle speed is in increments corresponding to a frame per second rate of the video information.

67. A video editing system, comprising:

a random access computer readable medium for storing video information in one or more data files in a computer file system;

a display;

a standard alphanumeric keyboard; and

computing apparatus operative in response to user input to display video information from the one or more data files on the display, and operative in response to signals from a first set of keys on a left hand side of the standard alphanumeric keyboard to control marking operations on the video information and operative in response to signals from a second set of keys on a right hand side of the standard alphanumeric keyboard to control shuttling of playback of the video information, and operative in response to signals from a third set of keys on the right hand side of the standard alphanumeric keyboard to control trimming of the marked video information.

68. A video editing system comprising computing apparatus operative in response to user input to display video information, stored in one or more data files on a random access computer readable medium in a computer file system, on a display, and operative in response to signals from a first set of keys on a left hand side of a standard alphanumeric keyboard to control marking operations on the video information and operative in response to signals from a second set of keys on a right hand side of the standard alphanumeric keyboard to control shuttling of playback of the video information on the display, and operative in response to signals from a third set of keys on the right hand side of the standard alphanumeric keyboard to control trimming of the marked video information.